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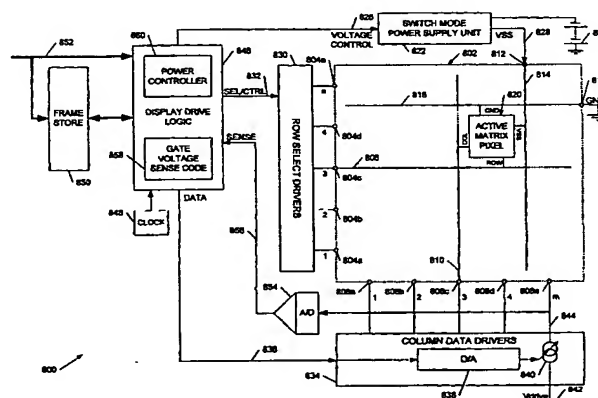
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**(54) Title: DATA DRIVER CIRCUIT FOR OLED DISPLAY**



**(57) Abstract:** This invention generally relates to display driver circuits for electro-optic displays, and more particularly relates to circuits and methods for driving active matrix organic light emitting diode displays with greater efficiency. A display driver (800) for an electroluminescent display (802), comprises a plurality of electroluminescent display elements each associated with a display element driver circuit (820), each said display element driver circuit including a drive transistor having a control connection for driving the associated display element in accordance with a voltage on the control connection. The display driver comprises at least one display element brightness controller (846) to provide an output to drive a said control connection to control the electroluminescent output from a said display element. A voltage sensor (854, 858) senses the voltage on a said control connection; and a power controller (860) for controls an adjustable power supply for providing an adjustable voltage to said electroluminescent display to power said drive transistors for driving said display elements. The power controller is configured to provide a control signal to adjust said power supply voltage in response to said sensed voltage.

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 G09G3/32		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 7 G09G		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EP0-Internal, PAJ		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
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X	US 2001/024186 A1 (ATHERTON JAMES HAROLD ET AL) 27 September 2001 (2001-09-27)	1-6, 14
Y	paragraph '0102! - paragraph '0109!; figures 2,12,13 --- -/-	7-13, 15-28
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the international search  12 December 2003		Date of mailing of the international search report  19/12/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  Morris, D

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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